

# AFB0412HA-A Delta 12VDC 40x40x10mm 2-Wire Axial Fan Datasheet



**Brand:** Delta

**SKU:** [905139467396](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$12.99**

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Product Page:

<https://www.equipspares.com/product/afb0412ha-a-delta-12vdc-40x40x10mm-2-wire-axial-fan>

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## Product Description

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The Delta AFB0412HA-A is a compact DC axial fan engineered for precision thermal management in space-constrained electronic assemblies. Utilizing advanced brushless DC motor technology and a durable ball bearing architecture, this unit ensures consistent rotational stability and reduced friction coefficients over extended operational lifecycles. The aerodynamic impeller design optimizes airflow intake while maintaining a manageable noise profile, balancing thermal impedance reduction with acoustic performance. Its structural rigidity and efficient commutation circuitry make it a reliable component for maintaining optimal operating temperatures in sensitive hardware environments.

Model Number: AFB0412HA-A

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.08 A

Input Power: 0.96 W

Rated Speed: 6000 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 6.8 CFM (11.55 m<sup>3</sup>/h / 0.19 m<sup>3</sup>/min)

Max. Static Pressure: 3.64 mmH<sub>2</sub>O (35.7 Pa / 0.14 inH<sub>2</sub>O)

Dimensions: 40 x 40 x 10 mm

Weight: 14.0 g

Noise Level: 27.0 dB-A

Life Expectancy: 70,000 Hours at 40°C

Housing Material: Plastic (UL 94V-0)

Impeller Material: Plastic (UL 94V-0)

Termination: 2-Wire Lead (Red +, Black -)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Ingress Protection: IP55 (Optional configuration)

Safety Certifications: UL, cUL, TUV, VDE, CE

Protection: Impedance Protected, Reverse Polarity

The AFB0412HA-A is specifically designed for high-density electronic applications where space is at a premium but reliable cooling is non-negotiable. Common deployment scenarios include chipset cooling in server racks, ventilation for compact power supply units, and thermal regulation in industrial automation controllers. The AFB0412HA-A is also frequently utilized in network switches, CNC control panels, and medical instrumentation, ensuring critical components remain within safe thermal envelopes during continuous operation. Its compact 40mm footprint allows for seamless integration into legacy systems and modern PCB layouts alike.

## Supplemental Images

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